



THERAPEUTICS

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SUMMARY:

The professional practice of homeopathic medicine requires patience, "clear-sightedness", and, above all, adaptability. According to the principles of homeopathy, it is possible to rapidly implement the clinical application of new discoveries in modern science, without endangering the body.

We must respond to the needs of our patients who are suffering from pathologies that were once unknown - we can't treat a patient with AIDS using therapeutic techniques from 200 years ago....

So why don't we use the regulatory messages of our immune system, the cytokines, in hypophysiological doses to defend us against past, present and future attacks?

This is the argument posed by this report. At the time of writing, November 1994, the following immunological intermediates had been identified and produced for research and treatment, and the majority of these are available in homeopathic form:

- 15 Interleukins and their receptor antagonists
- 6 cell growth Factors
- 3 types of Interferon
- about twenty other factors, which can currently not be classified under a precise category

KEY WORDS:

CYTOKINES, FRACTAL DYNAMICS, HOLISTIC, DIATHESES, THERAPEUTIC PROTOCOLS

THE USE OF CYTOKINES IN HOMEOPATHY

THE FRACTAL DYNAMICS AT THE ROOT OF OUR BODIES FUNCTIONING

WHY SHOULD WE USE CYTOKINES AND HOMEOPATHIC DILUTIONS?

Man is the result of the balance between numerous biological systems, whose activity has one objective: the survival of the whole. An imbalance in one of these systems can immediately be compensated for temporarily by an additional system. Each system operates, or should operate, according to the principles of fractal dynamics which seems to provide a rational explanation for numerous lifeforms (plants, formation of crystals, functioning of the heart's intrinsic nervous system, functioning of electric and electromagnetic communication networks, the position of the planets in the universe, the creation of new planets, etc.).

Intervention in the balance of various biological systems can be defined as fractal, and will be causal, and either preventive (for maintaining the necessary balance for the body to function properly), or curative (for restoring balance according to a particular type of stimulation), in order to react against the disease or pathological processes developing according to the sensory, functional and lesional stages.

This intervention requires a vector - a message which must be extremely precise and which has to reach ultrafine structures in order to regulate the infinitesimal exchanges between the intra- and extracellular structures. This all has to occur in hypophysiological doses.

It also has to be fully accepted by the body, and must not be degraded or necessitate elimination and detoxification processes.

This stimulation should be repeated several times, without triggering adaptation and rejection mechanisms.

The basis for this stimulation must meet modern biochemical and mathematical criteria and must have a histopsychological and histopathological basis.

We should point out that all these characteristics can be found in the holistic homeopathic therapeutic method, which uses the human body's messages, the cytokines (protein molecules that have recently been discovered).

In this case, however, the traditional homeopathic concept of "similars" is real

and highly restrictive, although it is necessary as an opening line of argument. So, where can we find this starting point?

The start of a disease (*primum movens*) or the start of the expression of a sort of imbalance by the body, corresponds to each individual's constitution or temperament. This starting point will develop and be represented by the diathesis, being an attempt to rebalance the system at the precise moment the patient is visited by a doctor.

This all represents the reactive and evolving entity undergoing constant change which we call disease. This is characterised by clinical symptoms which, when they are precise, characteristic and representative of the individual and the whole of this pathological development, become signs.

However, this is all dependent upon initial conditions and causal entity.

In order to restore good oscillation, the correct trajectory and optimal balance, the body needs to be stimulated. This stimulus will be homeopathic and, therefore, diluted (law of infinitesimal stimulus) and dynamised (electromagnetic potentiation, resonance). The character and choice of the remedy will be determined by the patient's balance (or imbalance) position in comparison with all its immunological systems.

The clinical result, the real affinity of the stimulus, and the depth or superficiality of the treatment's action, will be determined by the choice of dilution.

The higher the dilution, the more infinitesimal the stimulus and the more it penetrates the system's vital organs and, therefore, allows for a more precise rebalancing of the imbalanced fractal.

In order to survive, to adapt to the various circumstances that upset its balance and maintain its individual structure (chromosome input), the body definitely carries out this type of correction. Therefore, the various biological

systems cohabit and collaborate in an extremely fragile and unstable balance. Any major upset to this state necessitates an equally significant reaction.

The fragile arrangement of the various areas of influence must be rebalanced using a strong action, which is also suppressive or substitutive, and one is therefore fully justified in using an allopathic treatment specifically designed for that purpose. However, if the treatment is incorrect, the effects will be worse than the original problem, creating a second imbalance, which, this time, is artificial. Alternatively, if the imbalance is slow, insidious, progressive and infinitesimal, the response must be the same (law of fractal systems), and should therefore be homeopathic.

If we look at the physiopathology of the regulation of our neuroendocrine/immunological system, it is now clear that there is one cell that plays a key part – a general regulatory role both as a meeting point for the various information and as a starting point for subsequent information. This cell is known as a lymphocyte (taking into account all its sub-species as well).

The arriving and departing regulatory messages are known as cytokines. The route used can be exocrine, endocrine or pancreas-mediated; this is established at the level of all the cells and using a highly specific action, as the cytokines are in infinitesimal doses (K_d = between 10^{-10} and 10^{-20} molar for the receptors of the cell membrane for the cytokines).

At this point the concepts become clearer and more concise, as there are psychopathological similarities in our fractal reasoning. The homeopathic reasoning can also, in part, be explained using a fractal approach for the various diatheses, defined as an individual's method of expression, given to him by the disease or by the character development of the patient himself when faced with a pathological imbalance.

The routes of a point along the curve

that represents the Mandelbrot set and the Juliard set display, which corresponds to each position of that point, illustrates the extreme complexity of this system (FIGURES 1, 2).

The effect of the infinitesimal variation in the position of the point (variation in the shape of the Juliard set) is, therefore, a type of lead wire in this complex network. If the route of this point which shows the route of our body on the balance curve (the famous research into healthy balance which is dear to our wise Chinese ancestors) is slow, progressive and pseudosinusoidal, with the frequent and intermittent display of the same Juliard sets, we will see the geometric display of psora which includes the frequent return to primary balance, and, therefore, to initial conditions. Patients manage to compensate, they are in phase with their attractor. This is a body that defends itself well, oscillates well and is in phase (electromagnetic theory, theory of acupuncture, EAV according to Voll, theory of Indian and Chinese behavioural medicines, etc.).

The second possibility is that the point follows a slow, progressive route; depending on the level of variation in our point, the Juliard sets are always diverse, complex and growing and have an entirely unpredictable shape. An imbalance in this second system becomes increasingly evident. The attractor is increasingly difficult to achieve, as the geometric image becomes complicated. Now we are entering into a psychotic state; the deeper and more complex the state, the more difficult it is to remedy effectively. We move away from the initial stage with the creation of a very different fixation pole and a compensated pseudo-balance that allows the system to manage this state of fact (Mandelbrot sets can be found in these complex and inextricable structures).

The pathological stage is also close to the initial stage, even from the graph point of view.

The third possibility is an extremely ra-

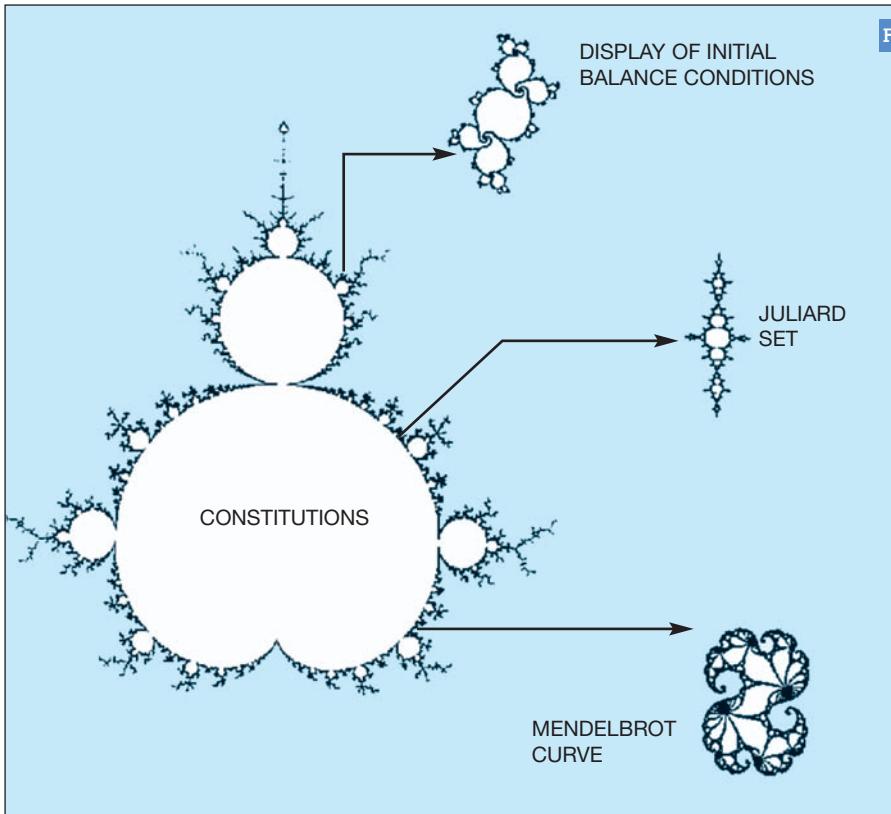


Figure 1

Fractal approach to homeopathy

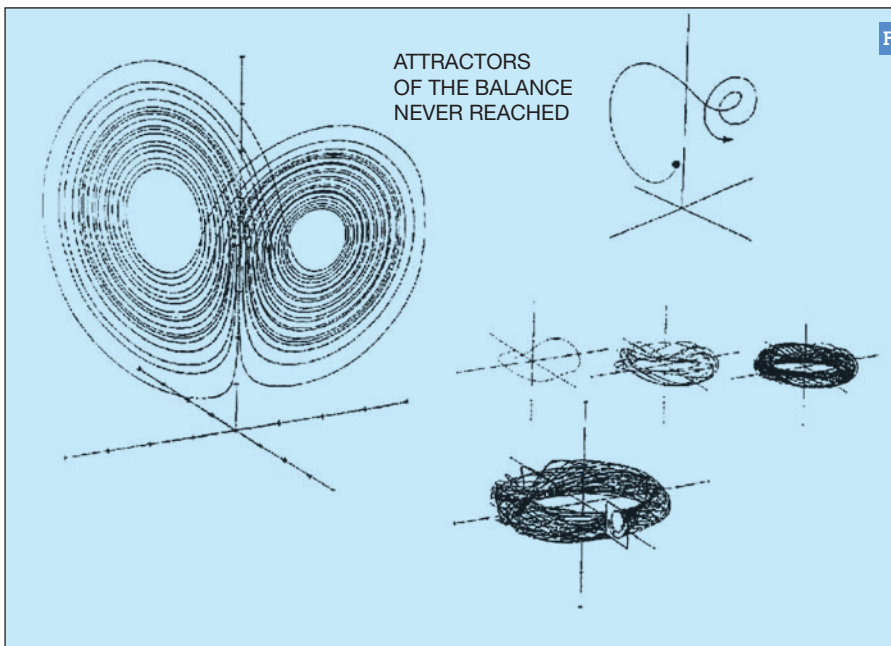


Figure 2

Attractors

pid and unpredictable variation. The point only moves slightly, and the Juliard sets are completely different. This geometric structure where all the recoveries of balance are sudden and unpredictable, appears to have a sort of tuberculinic reaction, characterised by rapid changes in balance, but these are constant returns to the initial position of partial balance.

Finally, the total anarchy of this geometric set, in the case of a variation in the state of balance is a sign of the image of the luetic stage. There is no longer anything organised or rational. The geometric structures no longer make any sense.

However, over a fairly long period, the extremely precise graphic analysis of these chaos phenomena using spatial

mathematical research, highlights a Mandelbrot set hidden at a given moment. Rebalancing is, therefore, possible, but dangerous, extremely difficult and above all, time-consuming.

It is also important to note that with this balance, the slightest stimulation or change in external conditions can cause a catastrophe.

One only needs to examine the clinical development of drug addicts or schizophrenic personalities to convince oneself of the clinical reality of these geometric applications. This fractal visualisation of the types of development of an imbalance can and must be simple, particularly so that it encourages research into the rationality of the basic concept.

The initial conditions of the system (symptoms, signs) will enable the most appropriate medicine (stimulus applied to the system examined) to be chosen

for rebalancing this stage (basal diathesis variation).

How should we choose a dilution that will represent the depth of action and precision of this stimulus (rebalancing according the progressive growth of the Mendelbrot set)?

In a given pathology, we know that the body responds in a fairly sinusoidal manner to the ingestion of a product in homeopathic dilution.

The principle of similitude only fulfils the initial part of the curve (the first pe-

riod) and then we no longer know what course it will take (FIGURE 3).

As a result, our choice is limited and the drug cannot be perfectly moulded to our needs. The starting point along this sinusoidal course is linked to the diathetic characteristic, that is the patient's predisposition (FIGURE 4).

In order to choose the correct dilution, one needs to think rationally about a system using a sinusoidal variation of unknown origin which complies with a fractal system.

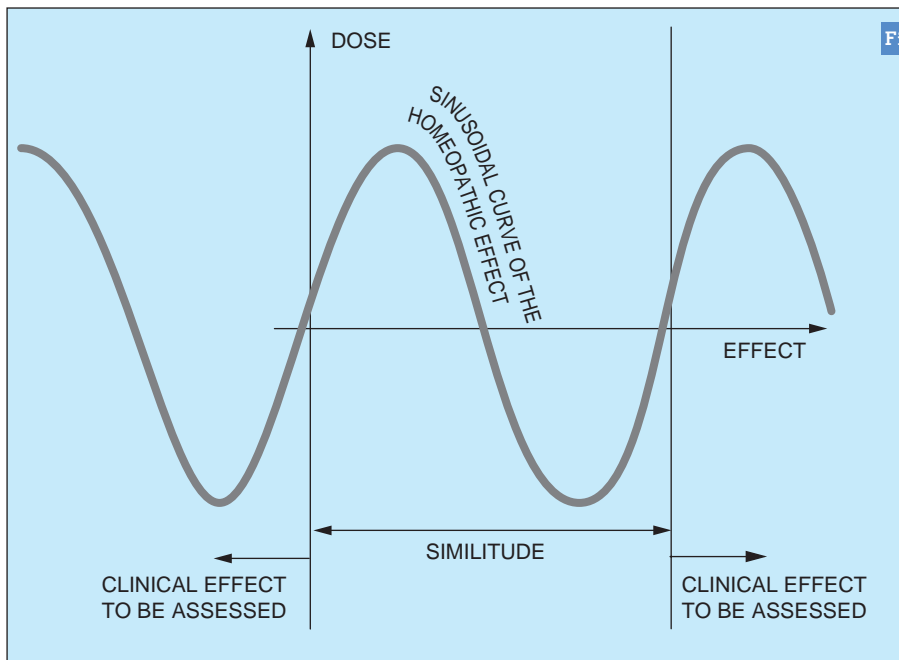


Figure 3

Individual response to the homeopathic drug

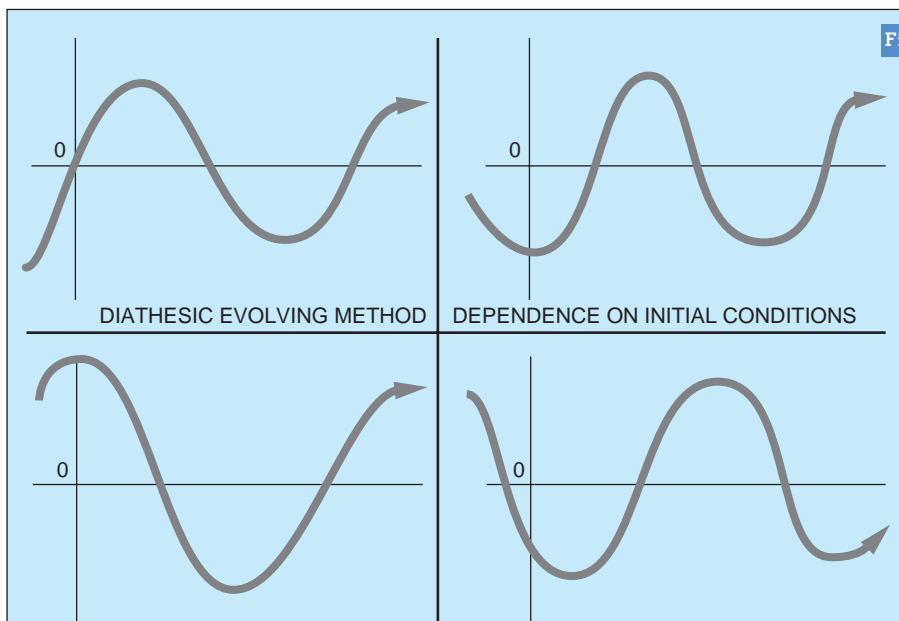


Figure 4

Various trends of responses according to the various starting points

In order to assess the starting point, there is a type of guiding line represented by each of our characteristic signs, and key signs that characterise the remedy, as well as the appearance of the same symptoms that represent the clinical confirmation of the basic hypothesis. From a chaotic state, the body starts to identify a pseudo-balance of those systems that reach their own attractors and, therefore, a given position in the Mandelbrot set.

An effective homeopathic therapy is, therefore, a constant variation and adjustment in time and space of the physical and mental context (or vice versa).

The type of dilution is also another component with sinusoidal variant whose effect should be assessed and tested in each patient, according to his developmental method.

There is nothing more complicated but, at the same time, more fascinating than being on the verge of discovering the hidden method with which each of us enters into resonance with the most subtle changes of our body and our environment. This analysis is carried out simultaneously in space and time, by calculating and assessing a permanent adjustment in the countless effects of the stimulations.

The most complicated aspect we currently know of, is ensuring the regulation of all the functions of our body; this involves an interactive network of lymphocyte or cytokine (and other cells) messengers. This network, which is constantly evolving, continually changing in terms of quality and quantity and constantly adapting, allows for a response to almost all efforts to find a better, more stable and more bearable balance for the body in a given situation, via the integration and implementation of numerous deep and superficial, intracellular and intercellular or interorganismic signals, via the blood or lymph system.

The blueprint for this state of reactivity

is the patient's blood, reacting at the precise moment of examination, under precise psycho-physical conditions (anxiety, fear, calm, etc.).

The cybernetic message travels along in the blood, driven by the network of cytokines, their inhibitors, their cytoplasmic receptors and any cell elements.

In order to comply with the principle of dependence on initial conditions and to rebalance the body's systems where necessary, it would therefore seem logical to use the patient's blood as an evolving starter. In addition, the use of various cytokines in homeopathic infinitesimal dilutions, would ensure that the body goes into resonance in a more lasting manner, and would strengthen our patient's defences.

The aim of a set of brief but precise actions at the time of treatment is to strengthen the capacity of the treatment, and to activate the endocrine, neurological and immune defences.

This activation will be infinitesimal as the balance will only be re-established if a stimulation identical to that which has caused the disorder is applied to the imbalanced system, thus adhering as closely as possible to the evolving initial conditions (constitution, diathesis).

In theory, therefore, we have once more uncovered the need for a renewed homeopathic concept, boosted by the use of new treatment procedures.

The choice of cytokines – messengers of the interactive biological systems in precise homeopathic doses – and the accuracy of this selection (physiological evaluation), enables the neuroendocrine-immune barrier and the energy barrier (which is derived from the dynamisation type of the product used) to be removed in one fell swoop, using a method that the body fully accepts (as it involves the use of its own components) and which has a natural and physiological action (use of the blood's autolo-

gous interactive network), without triggering the body's retrocontrol and sensitisation mechanisms.

THERAPEUTIC PROTOCOLS

In the following description of the various protocols, the use of cytokines will be described in detail; classical homeotoxicological support, drainage and constitutional rebalancing therapy are not covered in this article, but they should be taken into consideration.

A – PROTOCOL FOR AUTOIMMUNE DISEASES WITHOUT PRECISE PATHOLOGICAL CHARACTERISATION

FIRST STAGE

In order to identify the immune conflict in question (clinical or paraclinical, test for anti-tissue antibody positivity), a reaction should be created in the body (to force the balance to return).

Start with:

G.C.S.F. (Granulocyte Colony-Stimulating Factor) – between 5 and 10 drops, once, twice or 3 times a day according to the gravity of the reactive context. Treatment should still be gradual; don't forget to keep a close eye on the patient's reactions.

Combination with other cytokines should be carried out as follows:

- IL-1 acute episodes
- IL-2 basic regulation
- IL-4 extremely severe allergic reactions
- IL-6 serious aggression

Interferon Gamma is proven to be effective against Hepatitis B and C.

The other cytokines should be used according to specific cases.

Always begin with the lowest available dilution (4CH - 5CH) and increase the

dilution according to the patient's level of response (homeopathic theory).

It is vital to prevent viral infections because of the gravity of possible relapses in this pathology.

We would suggest combining *Antiage IM granules* and *Grippe Nosode Injeel* for immediate non-allopathic and homotoxicological symptomatic treatment of inflammatory episodes and ORL infections.

SECOND STAGE

One should create and regulate tolerance via the modulation of balances in the general organic system, by administering: organotherapeutic remedies or embryonic extracts according to the pathology.

The following organotherapies should be prescribed to stimulate the lymph system:

- spleen
- lymph system
- intestine
- colon
- thymus
- tonsils
- blood
- bone marrow

Low dilutions (Injeel) should be used. If only a regulatory action is required, use the single high dilutions.

In order to regularise the expression of HLA histocompatibility antigens at the pathological site, the following should be administered to immobilise the CD4s which secrete IFN Gamma and TNF Alpha:

- IFN Gamma in dilutions lower than 12CH
- TNF Alpha in dilutions lower than 12CH

In order to activate the CD4s that secrete IL-4, one should administer: IL-4 in lower dilutions – 4CH or 7CH.

One should also regulate localised inflammation using the most effective of the usual protocols (*Arnica comp.-Heel®* for example).

B – TREATMENT PROTOCOL FOR BACTERIAL DISEASES

PREVENTION

In order to block the expression of the CD4s which produce IL-4, administer: IL-4 in dilutions lower than 12CH.

One should establish whether there is an autoimmune process underway, in conjunction with activation of the spleen (use *Splen suis-Injeel*) and an anti-sycotic action, which is vital in the case of silicic diathesis.

This enables us to block cell programming for the possible production of Interferon Gamma and TNF Alpha.

EVIDENT DISEASE

One should activate the production of Interferon Gamma in order to stimulate the activity of the macrophages (destructive antibacterial action) using IFN Gamma 5CH. In order to boost the effect, it should be combined with:

IL-4 in dilutions lower than 12CH and classical anti-inflammatory homotoxicological protocol.

In order to activate the complement system and encourage the secretion of proteins that bind themselves to the bacterial membrane, the following should be administered:

IL-6 5CH and Hepar suis-Injeel combined with *Lycopodium compositum*.

In order to activate the lymph system, one can use the scheme previously proposed alongside a well-aimed (EAV) therapy with nosodes.

C – TREATMENT PROTOCOL FOR ARTERIAL DEGENERATION (TREATMENT OF CLOTTING MICRO- OR MACRO-PATHOLOGIES)

PREVENTION

One should act on lipid deposits, using for example:

- diets and dietetic regimens

- general detoxification, specifically of the liver, kidneys and intestine
- specific protocols

In order to activate general immunity, one should prevent the lipid plates from producing autoantibodies and control any existing viral disorders that create an imbalance.

For basic immune stimulation treatment, you can refer to Protocol A. Specific treatment is aimed at fluidifying the blood and the biotherapeutic regulation of clotting.

- Treatment:
 - Bothrops 15CH
 - *Cornus sanguinaria* D1
 - Antiage Circ granules
 - Antiage Ven granules

or with organotherapeutic remedies:

- *Arteria suis-Injeel*
- *Splen suis-Injeel*

It is also necessary to limit the proliferation of endothelial cells, deactivate the HLA recognition system and control localised inflammation (regulate the secretion of the cytokines that are responsible).

- Treatment:
 - 1) activate the autoimmune process (see the previous protocol)
 - 2) the inflammatory mechanisms must be regulated according to the gravity of the stage of the disease, using the following in sequence:
 - IL-1, IL-2 and IL-4.

D – PROTOCOL FOR BALANCING TUMORAL PROCESSES

PREVENTION

Obvious in their simplicity but highly effective suggestions:

- Healthy lifestyle, sensible use of pharmacological treatments.
- Constitutional and diathetic rebalancing using homeopathy.

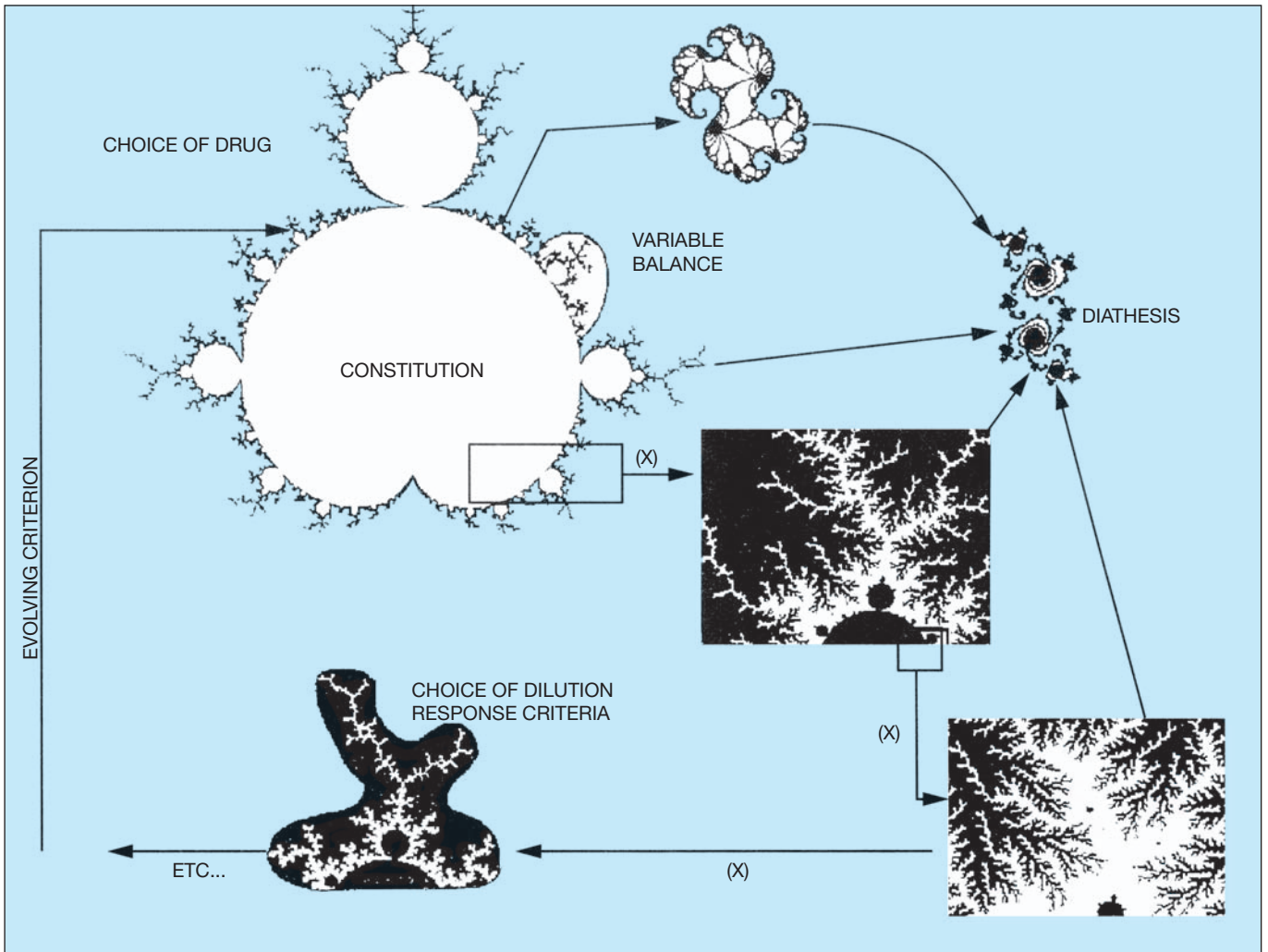


Figure 5

Fractal dynamics of morbid metastasis

CLEAR TUMORAL PROCESS
Non-metastasized primitive tumour

This strategy has the following aims:

- 1) contrasting the collateral effects of allopathic treatments
- 2) activating the immune defences and the body's reactive capacity

- Treatment:
 - GCSF 4CH
 - IL-6 5CH

Where necessary, other cytokines can also be administered (according to their physiological role).

Metastasized secondary tumoral process

Strategy:

- 1) activating the detoxification systems (liver, kidneys, intestine)
- 2) regulating clotting using biotherapies
- 3) contrasting inflammation of metastases and micro-metastazation
- 4) preventing viral complications, sources of aggravation to the immune state

The basic therapy is as follows:

- G.C.S.F. 4CH (general support)
- IL-6 5CH (cytotoxicity)

The supplementary therapy is:

- IL-1 in the case of acute complication
- IFN Gamma
- IL-2 for protection from "dysimmunity"
- TNF Alpha, to boost the therapy.

The various combinations can, of course, be decided according to the patient's development.

Advanced stage tumoral process

This is basically a support therapy.

We would suggest:

- Somatostatin 4CH
- Beta-endorfina 4CH
- Analgesic biotherapeutic treatment

We, of course, also need to reactivate the immune system:

Use dilutions lower than 7CH of:

- TNF Alpha
- IL-6

The result will not have any effect on the prognosis, but we obtain an improvement in general organic resistance and a vital improvement in painful symptomatology.

CONCLUSION

All the clinical concepts, whether homeopathic or allopathic, agree on the need to use these regulating messengers in infinitesimal doses (10^{-10} - 10^{-20} molar), as receptors are certainly sensitive to these dilutions and, cell action is therefore guaranteed.

At the moment, the art of homeopathy needs credibility, proof and statistics. It is possible to work together towards creating an integrated (both allopathic and homeopathic), structured, valid and above all, useful project of research for all our patients.

The study outlined in this report is the result of the exclusive clinical experience of 200 patients studied over 3 years.

Why shouldn't we put into practice a pluri-specialised multicentric study for assessing these efforts scientifically? Given that the interest of our patients is always a priority, this should be an essential obligation but it is all too often forgotten.

Let's look at the facts and results and start to become doctors who are working for the good of our patients and trying to combat their ills as effectively as possible, using the best possible methods. Today's homeopathy is a limitless therapeutic system which can be adapted to any pathological case and which allows

us to restore balance to the entire interactive fractal system named body.

At the moment, we only have a set of clinical situations which prove the efficacy of this type of stimulation. However, all the clinical experience of numerous doctors is one step closer to becoming a more tangible concept - a valid therapeutic system that, depending on the type of patient, disease and causal incidence can produce a healing and rebalancing action that can truly be called "holistic". ■

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